Name:

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Geometry, Period

Due Date: Thu, 23 Oct 2014

**Geometry**

**Homework**



**Failure to show work on all problems or use complete sentences will result in a LaSalle.**

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| 1. Angle EFG has a measure of 90 degrees. Ray FH bisects angle EFG. Angle EFG is represented by the expression 4x+5 and angle HFG is represented by the expression x+4. Find the value of x. | 2. In the figure below, lines *l* and *m* are parallel. Find the value of *x*. |
| 3. Angle ABC is a supplement to angle CBD (also known as a “linear pair”). Angle ABC is represented by the expression 4x + 18 and angle CBD is represented by the expression 20x +30. Find the measurement of angle ABC. | 4. Find the measure of the angle in bold (on top). |
| 5. Angle CHA and angle AHS are complementary. If angle CHA is represented by the expression 5x+2 and angle AHS is represented by the expression 7x-6, what is the value of x? | 6. bisects . The measure ofis 3x – 4 degrees, and is 7x – 20. What is the measure of each angle? (DRAW a picture). |
| 7. In the figure below, line *l* is parallel to line *m* and both are intersected by line *n*. What is the measure of the larger angle?    2x  5x | 8. Using the figure below, find the value of x.  Round to the nearest tenth.  48°  3x°  Figures are not drawn to scale.  (6x-2)°  (2x+1)° |
| 9. In the figure below, all intersect at point G with the angle measures as marked. Use this figure for the problems to the right.  (Figure is not drawn to scale.)    68°  54° | 9a. What is the measure of ?  9b. What is the measure of ? |
| 10. is a right angle, where and .  10a. What is the angle relationship between and ?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  10b. Draw a picture: | 10c. Find . *Show your work!* |